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24/72 PLUSPAT - (C) QUESTEL-ORBIT
PN - EP0817095 A2 19980107 [EP-817095]
PN2 - EP0817095 A3 19980826 [EP-817095]
TI - (A2) Extended symmetrical multiprocessor architecture
OTI - (A2) Architecture à multiprocesseurs étendue et symétrique
    - (A2) Erweiterte symmetrische Multiprozessorarchitektur
LA - ENGLISH (ENG)
PA - (A2) SUN MICROSYSTEMS INC
                                 (US)
PA2 - (A3) SUN MICROSYSTEMS INC
                                 (US)
   - (A2) HAGERSTEN ERIK E (US); HILL MARK D (US); SINGHAL ASHOK
    - EP97304797 19970630 [1997EP-0304797]
                            [1996US-0675361]
PR - US67536196 19960702
                           [1996US-0675362]
    - US67536296 19960702
    - US67536396 19960702
                            [1996US-0675363]
   - (A2) G06F-013/40 G06F-015/16
EC - G06F-015/173
DS - DE FR GB IT NL SE
DT - Basic
CT - Cited in the search report
    - US4240143(A)(Cat. A); EP524684(A)(Cat. A)
STG - (A2) Pub. Of applic. Without search report
STG2- (A3) Publi. Of search report
AB - An architecture and memory mapping technique for an extended
      multiprocessor (XMP) computer system are provided to overcome
      physical/electrical limitations of single bus architecture while
      maximizing bus bandwidth utilization. The XMP computer system includes
      multiple SMP nodes each including an XMP interface and a repeater
      structure . The SMP nodes are connected to each other by unidirectional
      point-to-point links. The repeater structure in each SMP node includes
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an upper level bus coupled to one or more transaction repeaters. Each transaction repeater broadcasts transactions to bus devices attached to separate lower level buses. Transactions originating in a particular SMP node are stored in a queue, whereas transactions originating in other SMP nodes bypass the incoming queue to the bus device. Multiple transactions may be simultaneously broadcast across the point-to-point link connections between the SMP nodes in a defined, uniform order. Each of the n SMP nodes is assigned 1/n of the total address space. Cache coherency information is stored for the memory in each SMP node . Memory regions may be assigned to operate in one of three modes: normal, migratory, or replicate. When operating in normal mode,

transaction to an address space assigned to a particular node are tried only locally in that node first. In migratory mode transactions are always sent globally. And in replicate mode duplicate copies of the replicate memory region are assigned to each SMP node so that transactions are always tried locally first, and only sent globally if

an improper cache coherency state is returned.